

-2-

RECEIVED  
CENTRAL FAX CENTER  
FEB 28 2007AMENDMENT TO THE CLAIMS

Claim 1 (currently amended): A composite matrix comprising a first layer and a second layer, each layer having a flexibility modifying agent, the first layer having at least about 5 dry weight percent flexibility modifying agent and a second layer having at least about 5 dry weight percent less flexibility modifying agent than the first layer, wherein at least one layer further comprises a reconstituted composition, and wherein the flexibility modifying agent in at least one of the layers comprises an elastic protein.

Claim 2 (currently amended): The composite matrix of claim 1 wherein the second layer ~~has~~ further comprises at least about 60 dry weight percent collagen.

Claim 3 (currently amended): The composite matrix of claim 1 wherein the second layer ~~has~~ further comprises at least about 85 dry weight percent collagen.

Claim 4 (currently amended): The composite matrix of claim 1 wherein the second layer further comprises crosslinked collagen.

Claim 5 (currently amended): The composite matrix of claim 1 wherein the second layer further comprises intestinal collagen.

Claims 6-7 Canceled.

Claim 8 (previously presented): The composite matrix of claim 1 wherein the elastic protein comprises elastin.

Claim 9 (original): The composite matrix of claim 1 wherein the first layer has from about 5 to about 95 dry weight percent flexibility modifying agent.

- 3 -

Claim 10 (currently amended): The composite matrix of claim 1 wherein the first layer further comprises at least about 5 dry weight percent collagen.

Claim 11 (currently amended): The composite matrix of claim 1 wherein the flexibility modifying agent further comprises friction reducing macromolecules.

Claims 12-16 Canceled.

Claim 17 (original): The composite matrix of claim 1 wherein the second layer has a thickness of at least about 25 microns.

Claim 18 (original): The composite matrix of claim 1 wherein the first layer has a thickness of at least about 25 microns.

Claim 19 (original): The composite matrix of claim 1 wherein the first layer and the second layer each have a thickness from about 75 microns to about 1 millimeter.

Claim 20 (original): The composite matrix of claim 1 wherein the first layer is crosslinked.

Claim 21 (original): The composite matrix of claim 1 wherein the first layer is adjacent the second layer.

Claim 22 (original): The composite matrix of claim 1 further comprising a third layer having at least about 60 dry weight percent collagen wherein the first layer is between the second layer and the third layer.

Claim 23 (currently amended): The composite matrix of claim 22 wherein the first layer further

- 4 -

comprises viable cells.

Claim 24 (original): The composite matrix of claim 1 wherein the second layer is folded over a central core of the first layer.

Claim 25 (currently amended): The composite matrix of claim 1 wherein the second layer further comprises growth factors.

Claim 26 (original): The composite matrix of claim 1 wherein the second layer comprises attachment compounds for fibroblast precursor cells or for vascular endothelial precursor cells.

Claim 27 (original): The composite matrix of claim 1 further comprising viable cells.

Claims 28-40 Canceled.

41. (New) The composite matrix of claim 1 wherein the reconstituted composition comprises a synthetic material.

42. (New) The composite matrix of claim 1 wherein the reconstituted composition comprises a purified material.

43. (New) The composite matrix of claim 11 wherein the friction reducing macromolecules comprise proteoglycans.

44. (New) The composite matrix of claim 11 wherein the friction reducing macromolecules comprise chondroitin sulfate, hyaluronic acid, and derivatives or mixtures thereof.

45. (New) The composite matrix of claim 11 wherein the first layer comprises from about 25 to

-5-

about 90 dry weight percent friction reducing macromolecules.

46. (New) The composite matrix of claim 11 wherein the first layer comprises from about 10 dry weight percent collagen to about 75 dry weight percent collagen.